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Premiums offered

IN THE SESSION 1821—1822.

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ADVERTISEMENT TO THE PUBLIC.

THE chief object of the SOCIETY is, to promote the Arts, Manufactures, and Commerce of this Kingdom, by giving honorary or pecuniary Rewards, as may be best adapted to the case, for the communication to the SOCIETY, and through the SOCIETY to the Public, of all such useful Inventions, Discoveries, and Improvements (whether specified in these Premiums or not) as tend to that purpose; in pursuance of this plan, the SOCIETY have already expended upwards of **EIGHTY-FIVE THOUSAND POUNDS**, derived from voluntary subscriptions and legacies.

The meetings of the SOCIETY are held every Wednesday, at seven o'clock in the evening, from the first Wednesday in November to the second Wednesday in June. The Committees meet on other evenings in the week during the session, for the purpose of taking into consideration the subjects referred to them by the SOCIETY. A person desirous of becoming a Member of the SOCIETY, may be proposed according to the following form, which must be signed by three Members of the SOCIETY, and delivered in to the Secretary :

A. B. [*Trade, Profession or Designation of the Candidate*] proposed as a Member of the Society for the Encouragement of Arts, Manufactures, and Commerce by

[*Date*]

C. D.
E. F.
G. H.

Peers of the Realm, or Lords of Parliament are, on their being proposed, immediately balloted for; the names of other persons proposed to become Members are read by the Secretary to the SOCIETY, and are then inserted in lists which are hung up in the SOCIETY's room; they are balloted for at the second following ordinary meeting. In both cases, if two-thirds of the Members then voting ballot in their favour, they are deemed Perpetual Members upon payment of not less than Twenty Guineas in one sum, or Subscribing Members upon payment of any sum not less than Two Guineas annually.

Ladies are eligible as Members of the SOCIETY, and alone are entitled to vote by proxy at elections, through the medium of any gentleman who is a Member, on his producing a written authority for the same.

Members are entitled to vote and assist in all the business of the SOCIETY and of the several Committees. They have also the privilege of recommending two persons as visitors at the meetings of the SOCIETY; and, by addressing a note to the housekeeper, of introducing their friends on any week day, except Wednesday, between the hours of ten and two, to examine the various Models, Machines, and Productions, in different branches of Arts, Manufactures and Commerce, for which rewards have been bestowed; also to inspect the magnificent series of Moral and Historical Paintings, executed by the late J. BARRY, Esq. which, with some valuable Busts, Statues, Portraits, &c. decorate the public rooms of the SOCIETY.

Members have the use of the SOCIETY's Library, which is valuable, and annually increasing by the purchase and donation of scientific and useful books, and of engravings. Contributions from Members and others, in augmentation of the Library and of the collection of Maps and Prints, will be thankfully received, and duly acknowledged in the annual volume of the Society's Transactions, to a copy of which every Member is entitled.

* * * To persons inclined to leave a sum of money to this SOCIETY by Will, the following form is offered for that purpose:

*Item.—I give and bequeath to A. B. and C. D. the sum of
upon condition and to the intent that they, or one of them, do pay the same
to the Collector for the time being, of a Society in London, who now call
themselves the Society for the Encouragement of Arts, Manufactures, and
Commerce; which said sum of I will and desire may be paid
out of my personal estate, and applied towards the carrying on the laudable
designs of the Society.*

The SOCIETY desire it to be clearly understood, that as a Body they are not responsible for any opinion or representation of facts contained in their Volumes. And the Public are requested to guard against impositions, from persons advertising as having Patents for Articles rewarded by the SOCIETY; they are also cautioned against purchasing articles sold under the pretended sanction of the SOCIETY's name.

The SOCIETY have lately published the 38th *Volume* of their Transactions, which may be had by Members on application to the Housekeeper. Complete SETS of their TRANSACTIONS, or any single Volume, may be purchased at the SOCIETY's house: where may be had also,

An Analytical Index of the first Twenty-five Volumes of the Transactions to the Termination of the Session, June 1807, price 2s. 6d.

A list of the Machines and Models in the SOCIETY's Repository, to the year 1813, inclusive.

A Catalogue of Books in the SOCIETY's Library, 1s.

A description of Mr. Barry's Paintings in the Great Room of the SOCIETY.

All communications are to be made by letter, addressed to ARTHUR AIKIN, Esq. the Secretary, at the SOCIETY OF ARTS, &c. Adelphi, London.

And where articles are sent by Sea for the SOCIETY, the Bills of Lading are to be addressed to the care of WILLIAM VAUGHAN, Esq., Mincing-lane, London, who has undertaken to receive them for the SOCIETY.

GENERAL NOTICE TO CANDIDATES.

THE great object of the SOCIETY in rewarding individuals is, to draw forth and give currency to those inventions and improvements which are likely to benefit the public at large. Candidates are therefore requested to observe, that if the means by which the respective objects are effected, require an expense or trouble too great for general purposes, the SOCIETY will not consider themselves bound to give the offered reward; but, though they expressly reserve the power, in all cases, of giving such part only of any premium as the performance shall be adjudged to deserve, or of withholding the whole if there be no merit, yet the Candidates may be assured the SOCIETY will always judge liberally of their several claims.

The SOCIETY by no means restrict their liberality to the subjects for which premiums are specially offered, but will take into consideration, and will reward, by a bounty proportioned to its merit, any communication, the subject of which is of a practical nature, and calculated to promote the public good.

All communications are to be made by letter addressed to the Secretary, and are to contain full and particular details, according to the nature of the subject, as well as accurate descriptions of such Drawings and Models as form part of the communication: the Models to be sent carriage paid.

In those cases in which certificates are required to be produced in claim of premiums, they should be expressed, as nearly as possible, in the words of the conditions attached to the respective premiums, and be signed by disinterested persons, who have a positive knowledge of the facts stated.

The premiums are designed for the United Kingdom, unless expressly mentioned to the contrary; but no claim will be attended to, unless the previous conditions have been fully complied with.

No person shall receive any premium, bounty, or encouragement, from the SOCIETY, for any matter for which he has obtained any premium or reward from any other SOCIETY, or for which he has obtained, or purposes to obtain a patent; it being a condition stipulated with every candidate, that all articles rewarded by the SOCIETY, shall be freely given up to the public, to be made or manufactured by any person whatever.

All Models, the production of which is attached as a condition to any premium, shall, upon the delivery of such premium, remain the property of the SOCIETY.

Where premiums or bounties are obtained in consequence of specimens produced, the SOCIETY will retain such part of those specimens as they may judge necessary, making a reasonable allowance for the same.

No member of this SOCIETY shall be a Candidate for, or entitled to receive, any premium, bounty, or reward whatsoever, except the honorary medal of the SOCIETY.

No Candidate, not a member, shall be present at any meeting of the SOCIETY or Committees, or admitted at the SOCIETY's rooms, after they have delivered in their claims, until such claims are adjudged, unless summoned by the Committee.

A Candidate for a premium, or a person applying for a bounty, being detected in any attempt to impose on the SOCIETY, shall forfeit such premium or bounty, and be deemed incapable of obtaining any for the future.

The consideration of the Claims for the premiums offered in the present List, will take place during the Session of the SOCIETY commencing on Wednesday, the 5th of November, 1821. The several Candidates and Claimants, to whom the SOCIETY shall adjudge Premiums or Bounties, are to attend on the last Wednesday in May, at eleven o'clock in the forenoon precisely, to receive the same, that day being appointed by the SOCIETY for the Distribution of their Rewards; and before that time no Premium or Bounty will be delivered, except to those who are about to leave the Kingdom.

In cases where the SOCIETY may think fit to admit excuses for not attending in person, Deputies may be substituted to receive the rewards, provided such Deputies are either Members of the Society, or superior Officers thereof.

PREMIUMS IN AGRICULTURE.

N. B.—The Winchester bushel is the measure referred to for grain; and, as the Acres of different districts vary in extent, it is necessary to observe, that the Society mean Statute acres of five and a half-yards to the rod or pole, and they request that all communications to them may be made agreeably thereto.

1. IMPROVEMENT OF LAND.

Gaining Land from the Sea.

1. TO the person who shall have gained the greatest quantity of Land from the Sea, not less than fifty acres, on the coast of Great Britain or Ireland;—*the Gold Medal.*

Certificates of the quantity of Land, and that the experiments were begun after the first of January, 1816, to be produced to the Society on or before the first Tuesday in February, 1822.

2. The same premium is extended one year farther, on the same conditions.

Improving Waste Land.

3. For the most satisfactory account of the best method of improving any one of the following soils, being Land lying Waste and uncultivated, viz. clay, gravel, sand, chalk, peat earth or bog, verified by experiments on not less than fifty acres of land;—*the Gold Medal.*

4. For the next greatest quantity, not less than thirty acres;—*the Silver Medal.*

It is required, that the Land, before such improvement, be absolutely uncultivated, and in a great measure useless, and that in its improved state, it be inclosed and cultivated.

Certificates of the number of acres, of the quality of the Land so improved, with a full account of every operation and expense attending such improvement, the state it is in as to the proportion of grass to arable, and the average value thereof, to be produced on or before the first Tuesday in February, 1822.

Manures.

5. For the most satisfactory set of experiments, to ascertain the comparative advantages of the following Ma-

nures, used as top-dressings on grass and corn land, viz. soot, coal-ashes, wood-ashes, lime, gypsum, bones, night-soil, or any other fit article;—*the Gold Medal.*

It is required that the above experiments be made between two or more of the above-mentioned Manures, and that not less than two acres of land be dressed with each Manure.

An account of the nature of the soil, quantity, and expense of the manure and crops, with certificates, to be produced on or before the last Tuesday in February, 1822.

2. PLANTATIONS.

Forest Trees.

6. To the person who shall have inclosed and planted, or set, the greatest number of acres (not less than fifteen) of land that is incapable of being ploughed, such as the borders of rivers, the sides of precipices, and any land that has too many rocks, or that is not calculated to repay the expense of tillage, owing to the surface being too hilly, mountainous, or otherwise unfit for tillage, with the best sorts of Forest Trees, namely, oak, Spanish chestnut, ash, elm, beech, alder, willow, larch, spruce, or silver fir (with or without screens of Scotch fir) adapted to the soil, and intended for timber trees, between the first of Oct. 1818, and the first of April 1819;—*the Gold Medal.*

7. For the second greatest quantity of land; not less than ten acres;—*the Silver Medal.*

A particular account of the methods used in making and managing the plantations, the nature of the soil, the probable number of each sort of plants, together with proper certificates that they were in a healthy and thriving state two years at least after

making the plantations, to be delivered to the Society on or before the second Tuesday in February, 1822.

N. B. With the above Forest Trees, the seeds, cuttings, or plants, of such other trees as are adapted to the soil, and proper for underwood, may or may not be intermixed.

Oaks.

8. To the person who shall have raised, since the year 1817, the greatest number of Oaks, not fewer than five thousand, either from young plants or acorns, in order to secure a succession of oak timber in this kingdom;—*the Gold Medal.*

9. For the next greatest number, not fewer than three thousand;—*the Silver Medal.*

Certificates that there were on the land at least the number of young Oak Trees required, in a thriving condition, two years after the planting, with an account of the methods pursued in making and managing the plantation, to be produced to the Society on or before the first Tuesday in February, 1822.

Oaks, not transplanted.

10. For having set, between the first of October, 1819, and the first of April, 1820, the greatest quantity of land, not less than ten acres, with Acorns, with or without seeds, cuttings, or plants of other trees, at the option of the candidate; and for effectually fencing and preserving the same, in order to raise timber;—*the Gold Medal.*

11. For the second greatest quantity of land, not less than five acres, set agreeably to the above conditions;—*the Silver Medal.*

Certificates of setting agreeably to the above conditions, and that there are not fewer than three hundred young Oaks on each acre, to be delivered to the Society on or before the first Tuesday in February, 1822.

Elm.

12. For having planted the greatest number of the English Elm, not less than eight thousand, between the 24th of June, 1819, and the 24th of June, 1820, and for having effectually fenced

and preserved the same, in order to raise timber;—*the Gold Medal.*

13. For the second greatest number, not less than five thousand;—*the Silver Medal.*

Certificates of having planted agreeably to the above conditions, that the plants were in a healthy and thriving state two years at least after making the plantation, and specifying the distance of the plants, to be delivered to the Society on or before the first Tuesday in April, 1822.

Larch.

14. For having planted out, between the 24th of June, 1818, and the 24th of June, 1819, the greatest number of Larch Trees, not fewer than five thousand, and for having effectually fenced and preserved the same, in order to raise timber;—*the Gold Medal.*

15. For the next greatest number, not fewer than three thousand;—*the Silver Medal.*

Certificates of the number of plants, that they were in a healthy and thriving state two years at least after they were planted out, with a general account of the methods used in making the plantation, to be delivered to the Society on or before the last Tuesday in February, 1822.

N. B. The Larch Trees may be planted either mixed with other trees, or by themselves, as may best suit the convenience of the planter.

Ash.

16. For having sown or set, in the year 1818, the greatest quantity of land, not less than six acres, with Ash for timber, with or without seeds, cuttings, or plants of such other trees as are adapted to the soil;—*the Gold Medal.*

17. For the next greatest quantity, not less than four acres;—*the Silver Medal.*

Certificates of the sowing or setting, agreeably to the above conditions, and that there are not fewer than six hundred Ash Plants on each acre, in a thriving and healthy condition, two years at least after the sowing or setting, with a general account of the methods used in making the planta-

tion, to be delivered to the Society on or before the last Tuesday in February, 1822.

Norway Fir.

18. To the person who shall have planted in the united kingdom, during the year 1819, the greatest number, not less than two thousand, of red wood and white wood Norway Fir Seedlings, at sufficient distances from each other to stand for timber trees;—*the Gold Medal.*

Certificates of the number of plants, that they were in a thriving state two years at least after they were planted out, with a general account of the methods used in making the plantation, to be delivered to the Society on or before the first Tuesday in February, 1822.

N. B. It is recommended to plant the seedlings of about three or four years growth, and in a moderately good soil, somewhat sheltered; the wood from the district of Christiana is esteemed the best for carpenters' and joiners' use: and for spars and ufers the trees near to Long Sound are most valued.

Chesnuts.

19. For having sown or set between the first of October, 1819, and the first of April, 1820, the greatest quantity of land, not less than six acres, with Spanish Chesnuts, with or without seeds, cuttings, or plants of other trees, adapted to such soil, at the option of the candidate; and for effectually fencing and preserving the same, in order to raise timber;—*the Gold Medal.*

20. For the second greatest quantity, not less than four acres;—*the Silver Medal.*

Certificates of sowing or setting, agreeably to the above conditions, and that there are not fewer than three hundred Chesnut Plants in a thriving state, on each acre, to be delivered to the Society on or before the first Tuesday in February, 1822.

Walnut Trees.

21. For having planted the greatest number of Walnut Trees, not less than five hundred, since June, 1819, and for

having effectually fenced and preserved the same, in order to raise timber;—*the Gold Medal.*

22. For the next greatest number, not fewer than three hundred;—*the Silver Medal.*

Certificates of having planted agreeably to the above conditions, and that the plants were in a healthy and thriving state two years at least after making the plantation, and specifying the distance of the plants from each other, to be delivered to the Society on or before the first Tuesday in April, 1822.

Securing Plantations.

23. To the person who shall give to the Society the most satisfactory account, founded on experience, of the most effectual and least expensive method of securing young plantations of timber trees and hedge rows, from hares and rabbits, as well as from sheep and cattle, which at the same time shall be least subject to the depredations of wood-stealers;—*the Silver Medal.*

The accounts, and certificates of the efficacy of the method to be produced to the Society on or before the last Tuesday in March, 1822.

3. COMPARATIVE EXPERIMENTS ON RAISING TREES.

Oaks.

24. To the person who shall ascertain in the best manner, by actual experiment, the comparative merits of the different modes of raising Oaks for timber, either from acorns set on land properly dug or tilled, from acorns set by the spade or dibble, without digging or tillage, either on a smooth surface, or among bushes, fern, or other cover; or from young plants previously raised in nurseries, and transplanted: regard being had to the expense, growth, and other respective advantages of the several methods;—*the Gold Medal.*

The accounts and proper certificates that not less than one acre has been cultivated in each mode, to be produced to the Society on or before the first Tuesday in February, 1822.

Walnuts.

25. To the person who shall communicate to the Society an improved mode of propagating the superior varieties of Walnuts, either by budding, grafting, or any other mode, except sowing;—*the Gold Medal.*

Certificates that not fewer than fifty trees have been so raised; with a full account of the method practised, to be produced to the Society on or before the first Tuesday in April, 1822.

4. CULTIVATION OF CORN AND OTHER PLANTS.*Wheat.*

26. For the best set of experiments made on not less than twelve acres, four acres being sown broad-cast, four drilled, and four dibbled (the two latter in equi-distant rows), in order fully to ascertain which is the most advantageous mode of cultivating wheat;—*the Gold Medal.*

It is required that every operation and the expense of each mode of culture be fully described; and that proper certificates of the nature and condition of the land on which the experiments were made, together with an account of the produce of the corn, the weight per bushel, and also of the straw, be produced to the Society on or before the last Tuesday in February, 1822.

Grass Seeds.

27. To the person who shall raise the greatest quantity of each or any of the following named grass seeds, viz.—Meadow Fox-tail (*lopecurus pratensis*), Sweet-scented Vernal-grass (*anthoxanthum odoratum*), Timothy-grass *phleum pratense*), meadow Fescue grass (*festuca pratensis*), smooth-stalked Meadow-grass (*poa pratensis*), rough-stalked Meadow-grass (*poa trivialis*), rough Cock's-foot (*dactylis glomerata*), perennial Ray-grass (*lolium perenne*);—*the Silver Medal.*

It is required that certificates from persons who have viewed them in a proper state to identify that they are one or other of the seeds above-mentioned, indicating clearly the particular species, and noticing the quantity produced of such seeds, free from weeds or mixture of other grasses, together

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with proper samples of the seeds, be produced to the Society on or before the first day of March, 1822.

Beans.

28. To the person who shall discover and cultivate, either by the drill or dibbling method, on not less than five acres, a species of Horse-beans or Tick-beans that will ripen their seeds before the 21st of August;—*the Silver Medal.*

It is required that a particular account of the bean, the cultivation, and the expense attending it, with proper certificates of the nature and condition of the land on which the experiments were made, together with an account of the produce, the weight per Winchester bushel, and a sample of not less than a peck, be produced to the Society on or before the last Tuesday in February, 1822. It is apprehended that if a Bean should be brought into cultivation with the habits of hotspur or other early peas, it would in a great measure escape the danger arising from the collier insect, or other insects, and allow more time for the farmers to till the land for the subsequent crop of wheat.

Parsnips.

29. To the person who shall cultivate the greatest quantity of land, not less than five acres, with Parsnips, for the particular purpose of feeding cattle or sheep;—*the Gold Medal.*

Certificates of the quantity of land so cultivated, with a particular account of the nature of the soil and weight of the produce on sixteen perches, and also of the condition of the cattle or sheep fed with the Parsnips, and the advantages resulting from the practice, to be produced to the Society on or before the last Tuesday in February, 1822.

Potatoes.

30. To the person who shall, in the year 1822, cultivate the greatest quantity of land, not less than fifty acres, with Potatoes of such qualities as shall be fit for the use of the table in the months of April, May, and June, 1823;—*the Gold Medal, or Thirty Guineas.*

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Proper certificates, along with other necessary particulars, to be delivered in to the Society on or before the first Tuesday in Nov. 1823.

Hemp.

31. The Society, wishing to encourage the growth of Hemp, in every part of the united empire, for the use of the navy, offer to the person who shall have sown with Hemp, in drills at least eighteen inches asunder, the greatest quantity of land in any part of the united empire, not less than fifty acres statute measure in the year 1821, and at the proper season shall have caused to be plucked the summer Hemp (or male Hemp bearing no seed), and continue the winter Hemp (or female Hemp bearing seed) on the ground until the seed is ripe;—*the Gold Medal.*

32. To the person who shall have sown with Hemp, in drills at least eighteen inches asunder, the next greatest quantity of land in any part of the united empire, not less than twenty-five acres, statute measure, in the year 1821, and shall at the proper season cause the same to be plucked as above-mentioned;—*the Silver Medal.*

Certificates of the number of acres, of the distance of the drills, of the plucking of the Hemp, with a general account of the soil, cultivation, and produce, to be delivered to the Society along with fourteen pounds of the Hemp and two quarts of the seed, on or before the last Tuesday in February, 1822.

N. B. The two preceding premiums are continued for one year longer on the same conditions.

Cultivation of the white Poppy (Papaver somniferum) and Extraction of the Opium.

33. To the person who shall obtain the greatest quantity of Opium, not less than 20 lbs. from the white Poppy (Papaver somniferum), raised by the claimant, in Great Britain or Ireland, in the year 1821;—*the Gold Ceres Medal, or Thirty Guineas.*

Certificates of the quantity and quality of the produce, with specimens, and a full description of the mode of culture, and of the extraction and prepara-

tion of the Opium, to be sent to the Society on or before the first Tuesday in February, 1822.

34. The above premium is extended to the succeeding year on similar conditions.

Persons proposing to claim the above premium are referred to Mr. Young's communications on the subject, published in the 37th and 38th Vols. of the Society's Transactions.

5. PRESERVATION OF VEGETABLE PRODUCE.

Preserving Turnips, Carrots, Parsnips, Beets, or Mangel Worzel.

35. To the person who shall discover to the Society the best and cheapest method of preserving these roots perfectly sound, and in every respect fit for supporting and fattening sheep and neat cattle during the months of February, March, and April;—*the Gold Medal.*

It is required that a full and accurate account of the method employed, and the expense attending the process, together with certificates that the produce of four acres, at the least, has been preserved according to the method described, and applied to the feeding of sheep and neat cattle; that the whole were drawn out of the ground before the first day of February, in order to clear the greater part of it previous to its being prepared for corn, and to save the soil from being exhausted by the turnips or other roots, and also of the weight of an average sixteen perches of the crop; be produced to the Society on or before the last Tuesday in April, 1822.

36. For the next in quantity and merit, on not less than two acres;—*the Silver Medal.*

Preserving Cabbages.

37. To the person who shall discover to the Society the best and cheapest method of preserving drum-headed Cabbages perfectly sound, and in every respect fit for supporting and fattening sheep and neat cattle during the months of February, March, and April;—*the Gold Medal.*

38. For the next in quantity and merit, on not less than two acres;—*the Silver Medal.*

Conditions the same as for preserving turnips, Art. 35.—And the accounts to be produced on or before the last Tuesday in April, 1822.

Harvesting Corn in Wet Weather.

39. To the person who shall discover to the Society the best and cheapest method, superior to any hitherto practised, of Harvesting Corn in Wet Weather;—*the Gold Medal.*

A full account of the method employed, and of the expense attending the process, with not less than two sheaves of the corn, and certificates that at the least the produce of ten acres has been harvested according to the method described, and that the whole is of equal quality with the samples; to be produced to the Society on or before the first Tuesday in February, 1822.

6. DESTROYING INSECTS AND OTHER VERMIN.

Destroying the Grub of the Cockchafer.

40. To the person who shall discover to the Society, an effectual method, verified by repeated and satisfactory trials, of destroying the Grub of the Cockchafer, or of preventing or checking the destructive effects which always result from the attack of these insects on corn, peas, beans, and turnips;—*the Gold Medal.*

The accounts, with proper certificates, to be produced on or before the first Tuesday in February, 1822.

Destroying Worms.

41. To the person who shall discover to the Society, an effectual method, verified by repeated and satisfactory trials, of destroying worms, or of preventing the destructive effects they occasion on corn, beans, peas, or other pulse;—*the Silver Medal.*

The accounts, with proper certificates, to be produced to the Society on or before the first Tuesday in February, 1822.

Destroying the Fly on Hops.

42. To the person who shall discover to the Society an easy and efficacious method of destroying the Fly on Hops, superior to any hitherto known;—*the Gold Medal.*

Accounts and certificates of the method having been successfully practised on not less than four acres of Hop ground; to be delivered to the Society on or before the first Tuesday in February, 1822.

Preventing the Blight on Fruit Trees and Culinary Plants.

43. To the person who shall discover to the Society the most effectual method of preventing the Blight or ravages of Insects, on Fruit Trees and Culinary Plants, superior to any hitherto known or practised, and verified by actual and comparative experiments;—*the Gold Medal.*

The accounts, with proper certificates, to be delivered to the Society on or before the last Tuesday in February, 1822.

7. CATTLE AND SHEEP.

Feeding Cattle.

44. For the best experiments on Stall feeding of Cattle (not fewer than five head), to be continued for the space of twelve months, in order to prove the earliest maturity and greatest propensity to fatten, of the most approved breeds of cattle in Great Britain, or Ireland, specifying the nature of the food given, together with the daily consumption of each beast, with its weekly increase in weight, and such other observations as may be deemed of consequence;—*the Gold Medal.*

A full account of the methods employed, and of the expenses attending the same, and certificates of the sundry matters stated, to be produced on or before the second Tuesday in Feb. 1822.

Protecting Sheep.

45. To the person who, in the winter 1821—1822, shall have protected the greatest number of sheep, not fewer

than one hundred, by hovels, sheds, or any other means;—*the Gold Medal.*

A particular account of the experiments made, with the advantages arising therefrom, together with the expense, and certificates of its utility, to be produced to the Society on or before the first Tuesday in March, 1822.

N. B. It is required that the certificates shall specify the length of time the sheep were so protected, and the manner in which they were maintained during that time; together with the general method of managing them.

Cure of the Rot in Sheep.

46. To the person who shall discover to the Society the best and most effectual method of curing the Rot in Sheep, verified by repeated and satisfactory experiments;—*the Gold Medal.*

It is expected that the Candidates furnish accurate accounts of the symptoms and cure of the disease, together with the imputed cause thereof, and the actual or probable means of prevention, which, with proper certificates, must be delivered to the Society on or before the last Tuesday in February, 1822.

Cure of the Foot-Rot in Sheep.

47. To the person who shall discover to the Society the best and most effectual method of curing the Foot-rot in sheep;—*the Silver Medal.*

It is required that the cure be ascertained by repeated and satisfactory experiments, and the method of performing it be verified by proper certificates, delivered to the Society on or before the last Tuesday in February, 1822.

Preventing the ill-effects of Flies on Sheep.

48. To the person who shall discover to the Society the most effectual method of protecting sheep from being disturbed and injured by flies;—*the Silver Medal.*
It is required that the method be ascertained by repeated experiments, and that a certificate of its efficacy be delivered to the Society on or before the first Tuesday in February, 1822.

8. BEES.

49. To the person who shall erect, previous to the first day of September, 1820, an apiary, containing the greatest number and heaviest hives or boxes stocked with Bees, not less than one hundred;—*the Silver Medal, or Twenty Guineas.*

50. For the next greatest number, not fewer than fifty stocks;—*Ten Guineas.*

51. For the next greatest number, not fewer than twenty-five stocks;—*Five Guineas.*

Proper certificates of the number of stocks, and that they have been in the possession of the claimant during the preceding summer, to be produced to the Society on or before the first Tuesday in March, 1822.

It is expected that the claimant will give such particular information on the subject, as may tend to benefit the public, and enable other persons to keep Bees to advantage; also that improved methods be made use of in their management.

9. AGRICULTURAL MACHINES.

Irrigation of Land.

52. To the person who shall discover to the Society the cheapest and most effectual method of raising water in quantities sufficient to be beneficially employed for the purpose of irrigating land superior to, and cheaper than any other method now in use;—*the Gold Medal, or Fifty Guineas.*

A model, on a scale of one inch to a foot, with certificates that a machine at large, on the same construction, has been used, specifying the quantity of water delivered in gallons per hour, and the height to which it was raised, to be produced to the Society on or before the first of March, 1822.

Paring Plough.

53. To the person who shall invent and produce to the Society a Machine or Plough for the purpose of Paring land preparatory to burning, superior to any hitherto known or in use for such purpose, and to be worked by not more than one man and two horses;—*the Silver Medal, or Twenty Guineas.*

The machine and certificates that at least ten acres have been pared by it in a proper manner, to be produced to the Society on or before the first of February, 1822.

Dibbling Machine.

54. To the person who shall invent a machine, superior to any hitherto known or in use, to answer the purpose of dibbling wheat, by which the holes for receiving the grain may be made at equal distances and proper depths;—*the Silver Medal, or Fifteen Guineas.*

The Machine with certificates that at least three acres have been dibbled by it, to be produced to the Society on

or before the second Tuesday in February, 1822.

Thrashing Machine:

55. To the person who shall invent a Machine by which corn of all sorts may be thrashed more expeditiously, effectually, and at a less expense, than by any method now in use;—*the Gold Medal.*

The Machine, or a Model, with proper certificates that such a Machine has been usefully applied, that at least thirty quarters have been thrashed by it, and of the time employed in the operation, to be produced to the Society on or before the last Tuesday in February, 1822.

P R E M I U M S

FOR THE PRACTICAL APPLICATION OF DISCOVERIES AND IMPROVEMENTS IN

CHEMISTRY, DYEING, AND MINERALOGY.

Increasing Steam.

56. To the person who shall invent and discover to the Society a method, verified by actual experiment, of increasing the quantity or force of Steam in Steam Engines, with less fuel than has hitherto been employed, provided that in general the whole amount of the expenses in using steam engines may be considerably lessened;—*the Gold Medal, or Fifty Guineas.*

To be communicated to the Society on or before the last Tuesday in February 1822.

Prevention of Smoke.

57. To the person who shall invent and produce to the Society the best and easiest means, superior to any now before the public, of preventing the emission of dense Smoke, from the chimneys of steam-engines, breweries, and manufactories;—*the Gold Medal, or Fifty Guineas.*

Certificates that the means proposed have been found to succeed in prac-

tice, to be produced to the Society on or before the first Tuesday in February, 1822.

Test for Arsenic.

58. To the person who shall discover to the Society a test for arsenic in solution, superior to any hitherto known;—*the Gold Medal.*

It is required that any communication in claim of this premium shall include a method of detecting arsenic, not only in its usual form of white arsenic, or arsenious acid, but also in the state of arsenic acid, and of the soluble salts formed by the combination of arsenious and arsenic acids with alkaline substances.

Claims for this premium to be delivered in on or before the last Tuesday in February, 1822.

Preventing the Ill-Effects of Smelting Ores.

59. To the person who shall invent and discover to the Society the most

effectual method of preventing the ill-effects arising to vegetation and animal life, from the sulphureous, arsenical, or other noxious fumes disengaged in smelting the ores of Copper, Zinc, Lead, Tin, Iron, &c. in the large way, and, if possible, of converting those pernicious fumes to useful purposes, in a manner superior to any hitherto known, or in use;—*the Gold Medal, or Fifty Guineas.*

It is required that a full account of the process employed, with certificates of its being successfully carried into effect, be produced to the Society on or before the first Tuesday in March, 1822.

Fine Bar Iron.

60. To the person, who shall make the greatest quantity of Bar-iron, not less than ten tons, with coak, from coak pigs, equal in quality to the best iron imported from Sweden or Russia, and as fit for being converted into steel;—*the Gold Medal, or Fifty Guineas.*

Samples, not less than one quarter of a hundred weight, with certificates that the whole quantity is of equal quality, to be produced to the Society on or before the first Tuesday in March, 1822.

Refining Copper from the Ore.

61. To the person who shall discover to the Society a method of separating, purifying, and refining Copper from the Ore, so as to render it fit for those purposes to which fine copper is now applied, and by a process cheaper than and superior to any hitherto known or in use;—*the Gold Medal, or Fifty Guineas.*

Certificates that not less than three tons have been so prepared or refined, and a quantity not less than 14 lbs. of the copper so refined, to be produced to the Society on or before the last Tuesday in February, 1822.

Refining Zinc from the Ore.

62. To the person who shall invent and communicate to the Society a process of refining Zinc from the Ore su-

erior to any hitherto known or in use, and fit for the purpose of making fine brass;—*the Gold Medal, or Fifty Guineas.*

Conditions the same as in the preceding premium.

Preparing Brass.

63. To the person who shall discover a method of making Brass from materials the produce of Great Britain or Ireland, of superior quality to that commonly manufactured in this country, and equal to foreign brass;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, and of the ingredients employed, together with their proportions, and certificates that one ton has been so manufactured, and a sample of the brass, not less than 14 lbs. to be produced to the Society on or before the last Tuesday in February, 1822.

Improved Earthenware Crucibles.

64. To the person who shall invent and discover to the Society a process for manufacturing earthenware crucibles which shall be capable of enduring higher degrees of heat than those now in use, and shall not be too expensive;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, and of the materials employed, with satisfactory certificates of the crucibles having been found to answer in use, and specimens of the crucibles, to be produced to the Society on or before the last Tuesday in March, 1822.

Preparation of Sulphuric Acid, from Sulphur, without the Use of any Nitric Salt.

65. To the person who shall prepare the largest quantity (not less than one ton) of Sulphuric Acid from sulphur, without any nitric salt, of a specific gravity not inferior to the best sulphuric acid of commerce;—*the Gold Medal, or Fifty Guineas.*

Certificates that not less than the above quantity of such an acid has been prepared, together with a sample, and a

full account of the process employed, to be produced to the Society on or before the first Tuesday in February, 1822.

Purification of Coal Gas.

66. To the person who shall discover the cheapest method of purifying the inflammable gas procured from coal, superior to any method now in use;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, with certificates of its fully answering the intended purpose, to be produced to the Society on or before the second Tuesday in February, 1822.

Refining Whale or Seal Oil.

67. For disclosing to the Society an effectual method of purifying Whale or Seal Oil from the glutinous matter that incrusts the wicks of lamps, and extinguishes the light, though fully supplied with oil; provided that such purified oil resists congelation in an equal degree with the unpurified;—*the Gold Medal, or Fifty Guineas.*

It is required that the whole of the process be fully and fairly disclosed, in order that satisfactory experiments may be made by the Society to determine the validity of the claim; and certificates that not less than twenty gallons have been purified according to the process delivered in, together with two gallons of the oil in its unpurified state, and two gallons so refined, to be produced to the Society on or before the second Tuesday in February, 1822.

Superior Oil for Chronometers and Watches.

68. To the person who shall invent and discover to the Society the best method of distinguishing the kind of oil fittest for chronometers and watches, ascertained by actual experiment; or for a superior method of rendering oil more fit for the above purpose than any hitherto in use, and particularly in rendering it less liable to become thick or rancid;—*the Gold Medal, or Fifty Guineas.*

A full account of the experiments and of the process or processes employed, verified by satisfactory certificates, together with a specimen of the oil, to be produced to the Society on or before the last Tuesday in March, 1822.

Glazing common Red Earthenware without Lead or Arsenic.

69. To the person who shall discover to the Society, the cheapest, safest, most durable, and most easily fusible, composition, fit for the purpose of glazing common red Earthenware, without any preparation of lead, arsenic, or other pernicious ingredients, and superior to any hitherto in use;—*the Gold Medal, or Thirty Guineas.*

Specimens of the ware so glazed, with proper certificates of its having succeeded, and a sample of the materials made use of, to be produced to the Society on or before the first Tuesday in February, 1822.

Crown Glass.

70. To the person who shall make Crown or Window Glass equally transparent, and as free from blue and green colour as the best German sheet;—*the Gold Isis Medal, or Thirty Guineas.*

Certificates that not less than two cwt. has been made, together with one whole plate and two of the largest squares that can be cut, and a full account of the proportions of the ingredients, and of the process of manufacture, to be produced to the Society on or before the last Tuesday in February, 1822.

Flint Glass.

71. To the person who shall make flint glass free from veins, and as dense and transparent as the best now in use, and quite fit for the purposes of Opticians;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, with certificates that not less than two cwt. has been made, together with 20 lbs. in plates not less than six inches wide and three quarters of an inch thick,

to be produced to the Society on or before the last Tuesday in January, 1822.

Indelible Ink.

72. To the person who shall discover to the Society a method of making a Black Ink proper for writing, superior to any at present known, indestructible by chemical applications, and not materially dearer than that which is now in common use;—*the Silver Medal, or Fifteen Guineas.*

Certificates that not less than two gallons of such ink have been actually prepared, and found to possess the qualities above-mentioned, with a full detail of the process of making it, and two quarts of the ink to be delivered to the Society on or before the second Tuesday in February, 1822.

Printers' Ink.

73. To the person who shall invent and discover to the Society the best composition for Printers' Ink, superior to any hitherto known or in use;—*the Gold Medal, or Thirty Guineas.*

Certificates that 112 lbs. of such ink have been made, with a full account of the process employed, and 6 lbs. of the ink, to be produced to the Society on or before the last Tuesday in February, 1822.

Copper Plate Printers' Ink.

74. To the person who shall invent and discover to the Society the best composition, superior to any hitherto known or in use, and fit for the finest kind of copper-plate printing;—*the Gold Medal, or Thirty Guineas.*

Certificates and conditions the same as for the last premium.

Rendering Leather Water-proof.

75. To the person who shall discover a method, superior to any now in use, and of moderate price, of rendering Leather Water-proof, without injuring its texture or pliability;—*the Silver Medal, or Fifteen Guineas.*

A full account of the process, and of the ingredients employed, together with

their proportions, attested by satisfactory certificates, as well as samples of the leather in its unprepared and prepared state, to be produced to the Society on or before the last Tuesday in February, 1822.

Hardening Tallow for Candles.

76. To the person who shall discover to the Society a method of hardening or otherwise preparing Tallow, so that candles may be made of it which will burn as clear and with as small a wick as wax candles, without running, and may be afforded at a less expense than any at present made with spermaceti;—*the Gold Medal, or Fifty Guineas.*

Certificates that 112 lbs. of such tallow have been made into candles, and 12 lbs. of the candles made thereof, to be produced to the Society on or before the second Tuesday in February, 1822.

Preserving Seeds of Vegetables.

77. For the best method of preserving Seeds of Plants in a state fit for vegetation a longer time than has hitherto been practised, such method being superior to any known to the public, and verified by sufficient trial, to be communicated to the Society on or before the last Tuesday in December, 1822;—*the Gold Medal, or Thirty Guineas.*

Preserving Provisions by Salt or by other means, from becoming rancid or rusty.

78. To the person who shall discover to the Society the best, cheapest, and most efficacious method of preserving Salted Provisions from becoming rancid or rusty;—*the Gold Medal, or Thirty Guineas.*

A full description of the method, with proper certificates that it has been found, on repeated trials, to answer the purpose intended, to be produced to the Society on or before the last Tuesday in February, 1822.

Preserving Iron from Rust.

79. To the person who shall invent and discover to the Society a cheap com-

position superior to any now in use, which shall effectually preserve Wrought Iron from rust;—*the Gold Medal, or Fifty Guineas.*

A full description of the method of preparing the composition, with certificates that it has stood at least two years unimpaired, being exposed to the atmosphere during the whole time, to be produced to the Society, with ten pounds weight of the composition, on or before the last Tuesday in January, 1822.

Preventing the Dry-rot in Timber.

80. To the person who shall discover to the Society a certain method of preventing the Dry-rot in Timber, superior to any hitherto known;—*the Gold Medal, or Thirty Guineas.*

The particulars of the method of prevention, confirmed by repeated experiments, to be produced to the Society on or before the last Tuesday in February, 1822.

Note.—For a method of curing and preventing the dry-rot in ship timber see Mr. Bowden's communication in Vol. 36 of the Society's Transactions.

Preventing the Destructive Effects from Moths.

81. To the person who shall discover to the Society a cheap, easy, and effectual method, verified by repeated and satisfactory trials, of preventing the destructive effects occasioned by Moths and other insects, in furs, woollens, and other articles, superior to any hitherto known or practised;—*the Gold Medal, or Thirty Guineas.*

The accounts, with proper certificates, to be produced to the Society on or before the first Tuesday in January, 1822.

Substitute for Lead Pipes.

82. To the person who shall invent and produce to the Society, a Substitute for the Lead Pipes used for conveying malt and other liquors from the cellars to the bars of public-houses;—*the Gold Medal, or Fifty Guineas.*

1821.

The substance of which the Pipe is made must be free from any poisonous or noxious quality, equally durable as lead, and of a moderate expense; and a specimen thereof, not less than ten yards in length, with a complete description of the process employed in forming it, must be produced to the Society on or before the last Tuesday in February, 1822.

Substitute for the Basis of White Paint.

83. To the person who shall produce to the Society the best substitute, superior to any hitherto known, for the basis of white paint, equally proper for the purpose as the white lead now employed; such substitute not to be of a noxious quality, and to be afforded at a price not materially higher than that of white-lead;—*the Gold Medal, or One Hundred Guineas.*

A quantity of the substitute, not less than 25 lbs. weight, with an account of the process used in preparing it, and certificates that at least one hundred weight has been manufactured, to be produced to the Society on or before the first Tuesday in February, 1822.

Substitute for Tar.

84. To the person who shall invent and discover to the Society the best substitute for Stockholm tar, equal in all its properties to the best of that kind, and prepared from materials the produce of the United Kingdom, or its colonies;—*the Gold Medal, or One Hundred Guineas.*

A quantity of the substitute, not less than one hundred weight, with certificates that at least one ton has been manufactured, and that it can be afforded at a price not exceeding that of the best foreign tar, together with an account of the process, to be delivered to the Society on or before the first Tuesday in March, 1822.

N. B.—Considerable quantities of tar are produced in Sweden and Norway from the roots of fir-trees burnt for that purpose.

Turpentine from the Scotch Fir, or Pinus Sylvestris.

85. To the person who shall prepare in Great Britain the greatest quantity of

Turpentine, not less than two hundred weight, from that species of fir called the Scotch fir, or *Pinus sylvestris*, Linn.; —*the Gold Medal, or Fifty Guineas.*

Certificates of the Turpentine being prepared from such trees of British growth, together with fifty-six pounds of the Turpentine, to be delivered to the Society on or before the second Tuesday in March, 1822.

86. For the next greatest quantity prepared, not less than one hundred weight, on similar conditions; —*the Silver Medal, or Twenty Guineas.*

N. B.—The Society being in possession of the method practised for extracting Turpentine from trees whilst growing, and of samples so procured, information will be given upon that subject, on application for that purpose, at the Society's house.

Preparation of Tan.

87. To the person who shall prepare in the most concentrated form, so as to be easily portable, and at a price applicable to the purposes of manufacturers, the largest quantity, not less than one hundred weight, of the astringent principle called Tannin, which abounds in oak bark, and in many other vegetable substances; —*the Gold Medal, or Fifty Guineas.*

Certificates of the good quality of the quantity so prepared, and a sample of not less than 28 lbs. to be produced to the Society on or before the last Tuesday in February, 1822.

British Indigo.

88. To the person who shall prepare Indigo, or a substance equal to it, from any plants (except woad), the growth of Great Britain or Ireland, at a price not greater than that of foreign indigo, of equal quality; —*the Gold Medal, or Fifty Guineas.*

A full account of the process and ingredients employed, together with their proportions, and satisfactory certificates that at least one cwt. of the indigo has actually been prepared; also a sample of the same weighing not less than 7 lbs. to be produced to the Society on or before the last Tuesday in February, 1822.

Dyeing Silk or Woollen.

89. To the person who shall discover a method of dyeing Silk or Woollen, of

any colour, superior to the same produced by other British dyers, and equal to those produced by the Continental dyers; —*the Gold Medal, or Thirty Guineas.*

A full account of the process and ingredients employed, together with their proportions, attested by satisfactory certificates, as well as samples of the silk and woollen in its undyed and dyed state, to be produced to the Society on or before the first Tuesday in March, 1822.

Improved Black Dye for Silk or Wool.

90. To the person who shall invent and discover to the Society a black dye for silk or wool superior in colour and durability to any at present in use; —*the Gold Medal, or Fifty Guineas.*

This premium is more immediately intended for the improvement of those colours known by the name of blue blacks.

A full account of the process and ingredients employed, together with their proportions, attested by satisfactory certificates, as well as samples of the silk or wool so dyed, to be produced to the Society, on or before the last Tuesday in March, 1822.

Dyeing with Lac Lake.

91. To the person who shall invent and discover to the Society a process for dyeing silk, wool, or cotton with lac lake, superior to any now in use; —*the Gold Medal, or Thirty Guineas.*

A full account of the process, with certificates that it has been found to answer completely in use, and specimens of articles so dyed, to be produced to the Society on or before the last Tuesday in March, 1822.

Preparation of a Red Stain for Cotton Cloth.

92. To the person who shall communicate to the Society the most effectual method of printing or staining cotton cloth with a red colour, by an immediate application of the colouring matter to the cloth, equally beautiful and durable with the red colours now generally procured from decoctions of madder; —*the Gold Medal, or Fifty Guineas.*

Certificates that the process, has been advantageously used on ten pieces of calico, each twenty-one yards or upwards in length; one piece of the calico so printed, one pound of the colour, and a full account of the preparation and application, to be produced to the Society on or before the second Tuesday in February, 1822.

Preparation of a Green Colour for printing Cotton Cloth.

93. To the person who shall communicate to the Society the best method of printing with a full green colour on cotton cloth, by an immediate application of the colouring matter from a wooden block to the cloth, equally beautiful and durable as the colours now formed from the complicated process of the decoction of weld, and the solutions of indigo;—*the Gold Medal, or Fifty Guineas.*

Certificates and conditions as for Premium 92.

Permanent White Paint for the Use of Artists.

94. To the person who shall produce to the Society a White Paint for oil, superior to any hitherto known, and not liable to be discoloured by exposure to light or to sulphuretted hydrogen gas;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, and 1 lb. of the colour to be produced to the Society, on or before the second Tuesday in February, 1822.

Red Pigment.

95. To the person who shall discover to the Society a full and satisfactory process for preparing a Red Pigment, fit for use in oil or water, equal in tone and brilliancy to the best carmines and lakes now known or in use, and perfectly durable;—*the Gold Medal, or Fifty Guineas.*

One pound weight of such colour, and a full disclosure of its preparation, to be produced to the Society on or before the first Tuesday in February, 1822.

N. B. It is required, that the colour should remain unaltered by the common exposure to strong light, damps, and noxious vapours.

Ultramarine.

96. To the person who shall prepare an artificial Ultramarine, equal in colour, brilliancy, and durability, to the best prepared from lapis lazuli, and which may be afforded at a cheaper rate;—*the Gold Medal, or Thirty Guineas.*

The conditions are the same as in the preceding premium for the red pigment.

Colourless Lac Varnish.

97. To the person who shall produce to the Society a Lac Varnish equally hard with that made from shell or seed lac, and as fit for use in the arts, but deprived of its colouring matter;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, and one quart of the varnish to be produced to the Society on or before the second Tuesday in January, 1822.

Statuary Marble.

98. To the person who shall discover within Great Britain or Ireland, a quarry of White Marble fit for the purposes of statuary, and equal to those kinds now imported from Italy;—*the Gold Medal, or One Hundred Guineas.*

A block of at least three feet in length, two in height, and two in width, with an account of the situation of the quarry, and certificates of its possessing considerable extent, to be produced to the Society on or before the first Tuesday in February, 1822.

N. B. In order to prevent useless expense or trouble to the Claimant in forwarding so large a block, the Society will be ready to examine any smaller specimen of the marble and express their opinion of its value to the Candidate before the block required by the above premium is produced.

Stone for Lithography.

99. To the person who shall discover within Great Britain or Ireland, a quarry of stone fit for the purposes of Lithography, equal at least to the stones imported from abroad;—*the Gold Isis Medal, or Thirty Guineas.*

A specimen of the stone at least two feet square and two inches in thickness, with an account of the situation

of the quarry, and certificates of its possessing considerable extent, to be produced to the Society on or before the last Tuesday in February, 1822.

Mineralogical and Geological County Maps.

100. To the person who shall complete and publish the best Mineralogical and Geological Map of any County in the United Kingdom, on a scale of not less than one inch to a mile, containing an account of the situation of the different mines therein, and describing the kinds of minerals thence produced, with sections of the strata;—*the Gold Medal, or Fifty Guineas.*

Certificates of the accuracy of such maps, together with the maps, to be produced to the Society on or before the first Tuesday in February, 1822. The maps to remain the property of the Society.

Mineralogical and Geological Map of Ireland.

101. To the person who shall complete and publish an accurate Mineralo-

gical and Geological Map of Ireland, on a scale of not less than five miles to an inch, containing particulars described in the foregoing premium;—*the Gold Medal, or Fifty Guineas.*

Mineralogical and Geological Map of Scotland.

102. The same premium is offered for a Mineralogical and Geological Map of Scotland, on similar conditions.

Natural History.

103. To the author who shall publish in the year 1821, the Natural History of any county in the United Kingdom;—*the Gold Medal, or Fifty Guineas.*

It is required that the several natural productions, animal, vegetable, and mineral, peculiar to the county, or found therein, be carefully and scientifically arranged and described, in order that the public may be enabled to judge what arts or manufactures are most likely to succeed in such county. A copy of the work to be delivered to the Society on or before the last Tuesday in February, 1822, to remain the property of the Society.

P R E M I U M S I N P O L I T E A R T S.

Honorary Premiums for Nobility.

104. For the best Original Painting or Drawing of any kind, by gentlemen under the age of twenty-one, sons or grandsons of peers or peeresses in their own right, of Great Britain or Ireland;—*the Gold Medal.*

105. For the best Copy on similar conditions;—*the Silver Medal.*

106. For the best Original Painting or Drawing of any kind, by ladies under the age of twenty-one; daughters or grand-daughters of peers or peeresses in their own right, of Great Britain or Ireland;—*the Gold Medal.*

107. For the best Copy on similar conditions;—*the Silver Medal.*

Honorary Premiums for Gentlemen or Ladies.

108. For the best Original Painting in oil colours by gentlemen under the age of twenty-five;—*the Gold Medal.*

109. For the best Copy in oil colours by gentlemen under the age of twenty-one;—*the Silver Medal.*

110. For the best Original Drawing or Painting in water colours by gentlemen under the age of twenty-five;—*the Gold Medal.*

111. For the best Copy in water colours by gentlemen under the age of twenty-one;—*the Silver Medal.*

112. For the best Original Painting in oil colours, by ladies under the age of twenty-five;—*the Gold Medal.*

113. For the best Copy in oil colours by ladies under the age of twenty-one;—*the Silver Medal.*

114. For the best Original Drawing, or Painting in water-colours, by ladies under the age of twenty-five;—*the Gold Medal.*

115. For the best Copy in water-colours, by ladies under the age of twenty-one;—*the Silver Medal.*

N. B. As the foregoing honorary premiums are intended only for the nobility and gentry; persons professing any branch of the polite arts, or any business

dependent on the arts of design, or the sons and daughters of such persons, will not be admitted candidates in the above classes.

PREMIUMS FOR ARTISTS AND OTHERS.

Human Figure.

116. For the best drawing in chalk, pencil, or Indian-ink, copied from any picture, print, or drawing, by persons under the age of sixteen;—*the Silver Palette.*

117. For the best outline, drawn from any entire figure of the antique, or cast in plaster—the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot, the size of life—by persons under the age of eighteen;—*the Silver Isis Medal; for the next in merit, the Silver Palette.*

118. For the best finished drawing from any antique figure, or from any cast in plaster—the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot, the size of life, by persons under the age of nineteen—*the Silver Medal; for the next in merit the Silver Isis Medal.*

119. For the best finished drawing of an anatomical human figure—the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot, the size of life, by persons under the age of nineteen;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

120. For the best drawing, from the living figure—the size of the drawing to be not less than twenty-four inches—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

121. For the best original drawing of an historical composition of two or more figures—the principal figure not less than nine inches—by persons under the age of twenty-five;—*the Gold Isis Medal; for the next in merit the Silver Medal.*

122. For the best copy in oil from any historical picture, of two or more

figures—the principal figure not less than twenty-four inches—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

123. For the best original painting, being an historical composition; the subject—David staying the hand of Abishai who was about to slay Saul whilst he was sleeping in the Trench, *vid.* 1st Samuel, ch. xxvi.—the principal figure not less than twenty-four inches, by persons under the age of twenty-five;—*the Gold Medal; for the next in merit the Gold Isis Medal.*

Heads or Portraits.

124. For the best drawing of a head, copied from any picture, drawing, or print—by persons under the age of sixteen;—*the Silver Palette.*

125. For the best finished drawing of a head, not less than the size of life, from any bust—by persons under the age of eighteen;—*the Silver Isis Medal; for the next in merit the Silver Palette.*

126. For the best original painting in water colours of a portrait—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

127. For the best copy, in oil, from a picture (a portrait)—by persons under the age of nineteen;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

128. For the best original painting in oil of a portrait—by persons under the age of twenty-three;—*the Gold Isis Medal; for the next in merit the Silver Medal.*

Models.

129. For the best model in bass-relief, from any entire antique figure, or cast in plaster, the size of the model not less

than twenty-four inches, by persons under the age of eighteen;—*the Silver Palette*.

130. For the best model in bass-relief from the living figure, by persons under the age of twenty-one, the model not less than twenty-four inches;—*the Silver Medal; for the next in merit the Silver Isis Medal*.

131. For the best restored model of the Ilissus in the Elgin collection—the size of the model not less than three feet—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal*.

132. For the best original model of a group—the figures not less than twenty-four inches—by persons under the age of twenty-five;—*the Gold Medal; for the next in merit the Gold Isis Medal*.

Landscape.

133. For the best drawing of a landscape, copied from any picture, drawing, or print—by persons under the age of eighteen;—*the Silver Palette*.

134. For the best original drawing of a landscape from nature—by persons under the age of twenty-one;—*the Silver Isis Medal; for the next in merit the Silver Palette*.

135. For the best original oil painting of a landscape from nature—by persons under the age of twenty-three;—*the Silver Medal; for the next in merit the Silver Isis Medal*.

136. For the best original composition of a landscape painted in oil—by persons under the age of twenty-five;—*the Gold Medal; for the next in merit the Gold Isis Medal*.

Flowers, or Fruit.

137. For the best drawing from any picture, print, or drawing—by persons under the age of sixteen;—*the Silver Palette*.

138. For the best original composition in water colours drawn from nature—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal*.

139. For the best original composition in oil, painted from nature—by persons under the age of twenty five;—*the Gold Medal; for the next in merit the Gold Isis Medal*.

Animals.

140. For the best drawing of any animal copied from any picture, print, or drawing—by persons under the age of sixteen;—*the Silver Palette*.

141. For the best original drawing from nature of any animal—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal*.

142. For the best original painting of a group of not less than three animals painted from nature—by persons under the age of twenty-five;—*the Gold Medal; for the next in merit the Gold Isis Medal*.

Still Life.

143. For the best original composition, painted in oil or water colours, of three or more of such objects as are usually called Still Life, by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal*.

Architecture.

144. For the best drawing of any public building in the United Kingdom, drawn from actual measurement on a sheet of double elephant paper—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal*.

145. For the best original design in Greek architecture, for a building suitable to the purposes of a court of justice; consisting of plan, elevation, section, and perspective view, to the scale of $\frac{1}{10}$ th of an inch to a foot; the drawing to remain the property of the Society, if required—by persons under the age of twenty-five;—*the Gold Medallion; for the next in merit the Gold Isis Medal*.

The following inscription to be engraved on these medallions “The premium given by the Society for the encouragement of Arts, Manufactures, and Commerce, in conformity to the will of John Stock, esq. of Hampstead.”

146. For the best original design in Gothic architecture for any public building, with a plan, elevation, section, and perspective view—each drawn on a sheet of large elephant paper—by persons under the age of twenty-five;—*the Gold Medal; for the next in merit the Gold Isis Medal*.

Perspective.

147. For the best perspective drawing from any public building in the United Kingdom, from elevations taken by actual measurement, and projected according to rule, drawn on large elephant paper—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

148. For the best perspective drawing of machinery—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

Enamel Painting.

149. For the best enamel painting of a head—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

150. For the best historical painting in enamel—by persons under the age of twenty-five;—*the Gold Medal; for the next in merit the Gold Isis Medal.*

Carving in Wood.

151. For the best carving in Wood, of fruit, or flowers, not less than nine inches high—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

152. For the best carving in wood, of one or more animals, the size of the animal not less than six inches—by persons under the age of twenty-one;—*the Silver Medal; for the next in merit the Silver Isis Medal.*

153. For the best carving in wood, of one or more human figures, not less than a foot in height—by persons under the age of twenty-five;—*the Gold Isis Medal; for the next in merit the Silver Medal.*

Etching of an Historical Subject.

154. For the best free Etching in historical composition, from a picture of eminence;—*the Gold Isis Medal.*

Etching of a Landscape.

155. For the best free Etching of a Landscape, from a picture of eminence;—*the Silver Medal.*

Historical Engravings.

156. For the best finished Engraving in historical composition;—*the Gold Medal.*

Landscape Engraving.

157. For the best finished Engraving of a Landscape;—*the Gold Isis Medal.*

Engraving of a Portrait.

158. For the best finished Engraving of a Portrait;—*the Gold Isis Medal.*

N. B. In the class of finished Engravings the Society requires an aquafortis impression, and a finished proof to be sent, and to remain with the Society.

Engraving on Steel.

158. For the best specimen of engraving on a steel plate not less than 5 inches by 3 inches in area, and not exceeding $\frac{1}{4}$ th of an inch in thickness; the plate to be afterwards hardened without injuring the engraving;—*the Gold Medal.*

The Plate, with two impressions from it, both in its soft and hardened state, to be produced to the Society. The impressions, but not the plate, to remain the property of the Society.

Engraving on Wood or Metal Blocks.

159. For the best Engraving on Wood or Metal Blocks, of an historical subject, the size of the principal figure not less than six inches in height, and the Block to be at least twelve inches by nine;—*the Gold Isis Medal.*

Two or more impressions, with the Block, to be produced to the Society. The impressions, but not the Block, to remain the property of the Society.

Prevention of Forgery.

160. To the person who shall communicate to the Society, the best method of preventing the impressions of prints from being transferred from the paper to plates or blocks for the purpose of being etched or engraved;—*the Silver Medal, or Twenty Guineas.*

The communication, with a full description of the process, and of the materials employed, together with the spe-

cimens, to be sent to the Society on or before the last Tuesday in February, 1822.

As this premium is intended to increase the difficulty of forging Bank Notes, and other kinds of paper currency, it is required, that the process shall not be too difficult or expensive for general use.

Lithography.

161. For the best specimen in this art;—*the Silver Medal.*

A particular account of the process employed, with six impressions of the drawing, to be produced to the Society.

Medal Die Engravings.

162. For the best Die Engraving either of a single figure or group, after the engraver's own design and model;—*the Gold Medal.*

163. For the best Die Engraving of a head;—*the Gold Isis Medal.*

The Dies with two impressions or casts, and the model, in each claim for Medal Die sinking are to be produced to the Society, and the impressions or casts to remain the property of the Society.

Conditions for the Polite Arts.

All performances in the class of Polite Arts, whether for claims or bounties, are to be produced to the Society on or before the first Tuesday in March, 1822, and none can be received after that day.

No Candidate, under any pretence whatever, shall be allowed to retouch or varnish a performance after it has been received by the Society.

No person having received a premium or bounty, shall afterwards receive an equal or inferior one in the same department of art.

No more than one performance in each class shall be received from the same Candidate.

All performances to which premiums or bounties are adjudged shall remain with the Society until after the second

Wednesday in June, 1822, when they will be re-delivered, unless mentioned in the premiums to the contrary.

No performance shall be admitted, that has obtained a reward from any other society, or academy.

No performance can be received with a view to obtain a bounty, which could have come into any of the foregoing classes.

It is required, that the subjects for which premiums are offered, be delivered in without the names, or any external intimation to whom they belong; that the claimant affix on the front of his performance whatever mark he pleases, and that the same mark be inscribed on a paper sealed up, containing within, the name and residence of the Candidate, and *on the outside* the age and sex, and the number of the premium in claim of which the performance is offered; the name not to be disclosed unless the Candidate be successful, or in consequence of a special vote of the Society, or Committee.

To encourage real merit, and to prevent attempts to impose on the Society, by producing drawings made or retouched by any other person than the Candidate, the Society require a specimen of the abilities of each successful candidate to be made under the inspection of the Committee of Polite Arts.

All Candidates in the Polite Arts are required to signify on their drawings, whether the performances are originals or copies; and if possible to send the originals from which the copies are taken.

All copies of drawings, &c. are to be on a different scale from the original.

The Society reserve to themselves the power of giving a Medal of less value than the premium offered, or of withholding the same altogether in cases where the performance shall be deemed undeserving of reward.

In consideration of the great number of premiums here offered, embracing so many departments of the Fine Arts, no bounty will be given to any performance comprised in any of the classes, from No. 116, to No. 163 inclusive.

**PREMIUMS FOR ENCOURAGING AND IMPROVING
MANUFACTURES.**

Cloth from Hop Stalks, Nettles, &c.

164. To the person who shall produce to the Society the greatest quantity, not less than thirty yards, of cloth, at least 27 inches wide, made in Great Britain or Ireland, of Hop Stalks or Bines, Nettles, or other raw vegetable substances, the produce of Great Britain or Ireland, superior to any hitherto manufactured from such substances, and which can be generally afforded as cheap as cloth of equal quality and appearance now made from hemp, flax, or cotton, and much finer in quality than any hitherto manufactured in England from Hop Stalks, &c.;—*the Gold Medal, or Thirty Guineas.*

One pound of the thread of which the Cloth is made, and thirty yards of the Cloth, together with proper certificates that the whole is manufactured from Hop Stalks, or Bines, &c. to be produced to the Society on or before the last Tuesday in February, 1822.

N. B. The Society is already in the possession of Cloth made in England from Hop Stalks or Bines, and Nettles, which may be inspected by application to the house-keeper.

Sheep's Wool.

165. To the person who shall prove to the Society, that he has sold the largest quantity of Merino Wool, or such Wool as will answer the same purpose, being the produce of his own flock, in the United Kingdom, for the purpose of being manufactured into superfine cloth, the quantity of Wool not less than five hundred weight, in the year 1821;—*the Gold Medal.*

Certificates, along with samples of the wool, and of the cloth manufactured from it to be produced to the Society on or before the last Tuesday in March, 1822.

166. For the next greatest quantity, not less than two hundred and fifty pounds;—*the Silver Medal*, on similar conditions.

1821.

Wicks for Candles or Lamps.

167. To the person who shall discover to the Society, a method of manufacturing Hop-stalks or Bines, Nettles, or any other cheap material, the growth of the United Kingdom, so as to render them equally fit for the purpose of supplying the place of cotton, for Wicks of Candles or Lamps;—*the Silver Medal, or Twenty Guineas.*

Samples, not less than 5 lbs. weight, of the Wicks so prepared, to be produced to the Society on or before the last Tuesday in February, 1821, with certificates that the whole quantity is equal in quality to the sample.

Wicks for Candles.

168. To the person who shall make known to the Society the most satisfactory result of a series of experiments actually made by him to determine the best thickness of Cotton Wicks for Candles, so as to obviate the defects of those commonly used;—*the Silver Medal, or Ten Guineas.*

Certificates, that not less than one hundred weight have been so made, and six pounds of the Candles, to be produced to the Society, on or before the last Tuesday in February, 1822.

N. B. The intention in offering this premium is, to ascertain the proper thickness or bulk of the Wick in proportion to that of the tallow, and to remove the unpleasant consequences and waste arising from the sparkling, or guttering of the candles in common use.

Paper from Raw vegetable Substances.

169. To the person who shall, between the first of January, 1821, and the first of January, 1822, make the greatest quantity, and of the best quality (not less than ten reams) of good and useful paper, from raw vegetable substances, the produce of Great Britain or Ireland, superior to any hitherto manufactured from such substances, and

which can be generally afforded as cheap as paper of equal quality and appearance now made from rags;—*the Silver Medal, or Twenty Guineas.*

N. B. The object of the Society being to add to the number and quantity of raw materials used in this manufacture, it is their wish to include every useful sort of paper, and to introduce such natural products as can be easily and cheaply procured in great quantities. The Society are in possession of two volumes containing a great variety of specimens of paper made from raw vegetable substances, viz. nettles, potato-haulm, hop-bines, &c. which volumes may be inspected by any person on application to the House-keeper.

Certificates of the making such paper, and one ream of the paper to be produced on or before the second Tuesday in February, 1822.

Transparent Paper.

170. To the person who shall discover to the Society a method of making Paper from the pulp, that shall be perfectly transparent, and of a substance and body equal to foolscap, that shall take and bear common writing-ink with the same facility and correctness as Writing paper generally in use;—*the Silver Medal, or Twenty Guineas.*

Certificates of the making such paper, an account of the process, and one ream of the paper, to be produced on or before the second Tuesday in March, 1822.

(INDIA PAPER, see page xxxiii.)

Chintz Patterns for Calico Printers.

171. For the best original pattern in a new taste, of light and dark-ground Chintz for garment work, or furniture, fit for the purpose of Calico-printers;—*the Silver Medal.*

To be produced to the Society on or before the first Tuesday in March, 1822, and a copy of the pattern for which the premium is adjudged, to remain the property of the Society.

Copper-plate Patterns.

172. For the best pattern, in a new style, fit for the purpose of calico-printers

for garment-work or furniture;—*the Silver Medal.*

To be produced to the Society on or before the first Tuesday in March, 1822, and a copy of the pattern for which the premium is adjudged, to remain the property of the Society.

Gloves.

173. To the person who shall make known to the Society a process equal or superior to that of the French, for preparing, dyeing, and finishing the skins, verified by actual experiments, and the communication accompanied with at least a dozen pair of gloves made from skins so prepared;—*the Gold Medal, or Forty Guineas.*

Certificates from competent persons, fully approving of the result of such experiments, together with the gloves and communication, to be produced to the Society on or before the last Tuesday in March, 1822.

Cat-gut.

174. To the person who shall discover to the Society the best method of manufacturing, in the United Kingdom of Great Britain and Ireland, the intestines of sheep, lambs, goats, or of any other animals, into the article called Cat-gut, equally strong, clear, smooth, even, and free from knots, as the best Italian strings, and at a price not exceeding what they are usually sold for in England;—*the Gold Medal, or Thirty Guineas.*

Certificates that not less than fifty pound weight have been so prepared by the claimant, with a full detail of the process, and samples of the articles of various thicknesses, to be produced to the Society on or before the first Tuesday in February, 1822.

175. For the next greatest quantity, not less than twenty-five pounds;—*the Silver Medal, or Twenty Guineas*, on similar conditions.

Hose for Fire Engines, Brew-houses, &c.

176. To the person who shall invent and make known to the Society a method of making Hose for Fire Engines

Brewhouses, &c. similar to those used on the continent, made of flax or hemp, or other flexible material cheaper than leather;—*the Gold Isis Medal, or Thirty Guineas.*

A full account of the process used in manufacturing it, with certificates of its efficacy in practice, to be produced to the Society on or before the last Tuesday in February, 1822.

Thread for Lace.

177. To the person who shall invent

or discover a method of manufacturing Thread from flax, of as fine quality as any used on the Continent;—*the Gold Medal, or Thirty Guineas.*

Samples of the Thread, not less than one pound in weight, and of the Lace made therefrom, together with certificates that not less than ten pounds in weight of each sort has been manufactured, to be produced to the Society, on or before the last Tuesday in March, 1822.

PREMIUMS IN MECHANICS.

Gunpowder Mills.

178. To the person who shall invent and discover to the Society the most effectual mode of preventing explosions in Gunpowder Mills;—*the Gold Medal, or One Hundred Guineas.*

Certificates and accounts of the method having been put in practice in one or more Gunpowder Mills in this kingdom, and that it promises, in the opinion of the best judges concerned in such works, to answer the purpose intended, to be produced to the Society on or before the first Tuesday in February, 1822.

N. B. As an encouragement to persons to turn their thoughts to improvements of this nature, if any should be made on the present method of conducting the business of Gunpowder-making which fall short of the total prevention of explosion; such bounty or reward will be bestowed on them as they may appear to merit.

Family or Portable Mill.

179. To the person who shall invent and produce to the Society, a mill for Grinding Corn for the use of private families, or parish poor; the construction to be simple, the mill to be easily worked, and superior to any hitherto in use;—*the Gold Medal, or Thirty Guineas.*

The Mill, and certificates of its having been used to good effect, to be pro-

duced to the Society, on or before the last Tuesday in February, 1822. Cheapness and simplicity will be considered as essential parts of its merit; and the Mill, or a model, to remain with the Society.

Machine for Raising Coals, Ore, &c. &c.

180. To the person who shall invent a machine for raising coals, ore, &c. from mines, superior to any hitherto known or in use; and which shall produce the effect at less expense;—*the Gold Medal, or Fifty Guineas.*

A model with a certificate that a machine at large on the same construction has been advantageously used, to be produced to the Society on or before the second Tuesday in February, 1822.

Improved Walking-wheel or Crane.

181. To the person who shall invent an improved Walking Wheel or Crane, on which the weight or power of any person or persons shall be applied with the greatest safety and effect, and so contrived that the power can be varied according to the greater or less weight to be raised or lowered;—*the Gold Medal, or Thirty Guineas.*

A model, with a certificate that the machine at large has been employed to good effect, to be produced to the

Society on or before the second Tuesday in March, 1822.

Machine for Raising Water.

182. To the person who shall invent a machine on a better, cheaper, and more simple construction than any hitherto known for raising water out of wells, &c. from a depth of not less than fifty feet;—*the Gold Medal, or Thirty Guineas.*

Certificates of the performance of the machine, and a model of it, to be produced to the Society, on or before the last Tuesday in February, 1822.

Extinguishing Fires.

183. To the person who shall produce to the Society a method for preventing or extinguishing fire in buildings, superior to any now in use;—*the Gold Medal, or Thirty Guineas.*

Certificates of the method having been practised with success, with a full description thereof, to be delivered to the Society on or before the last Tuesday in January, 1822.

Boring and Blasting Rocks.

184. To the person who shall discover to the Society a more simple, safe, cheap, and expeditious method than any hitherto known or in use, of Boring or Blasting Rocks in mines, shafts, wells, &c.;—*the Gold Medal, or Thirty Guineas.*

Certificates of the method having been practised with success, with a full description thereof, to be delivered to the Society on or before the first Tuesday in February, 1822.

Heating Rooms for the purpose of Manufacturers.

185. To the person who shall invent and discover to the Society, a method of Heating Rooms, superior to and cheaper than any hitherto known or in use, for the purpose of manufacturers;—*the Gold Medal, or Thirty Guineas.*

A model or complete drawing and description of the method, with certifi-

cates that it has been successfully practised, to be delivered to the Society on or before the last Tuesday in March, 1822.

Improved Ventilation.

186. To the person who shall invent and produce to the Society a mode of permanently Ventilating the apartments in hospitals, workhouses, and other crowded places, superior to any now known or used;—*the Gold Medal, or Fifty Guineas.*

A model of the apparatus, and a full account of the means by which the effect has been produced, with proper certificates to be delivered to the Society on or before the last Tuesday in February, 1822.

Ventilating Coal Mines.

187. To the person who shall invent and carry into practice a method of Ventilating coal mines so as effectually to prevent the accidents liable to arise from the accumulation of carburetted hydrogen and other gases;—*the Gold Medal.*

A full account of the process, with certificates of its efficacy, to be produced to the Society on or before the last Tuesday in February, 1822.

N. B. The Society will be very glad to attend to any communication, which, though not completely effecting the object, appears to offer an approximation to it. The Society wish particularly to refer candidates for this premium to the communication made by Mr. Ryan and published in the 34th vol. of the "Transactions," and will consider themselves obliged to any person who will furnish any information with respect to the attempts which have been made to introduce Mr. Ryan's mode of ventilating coal mines into actual use, and of the success with which this method has been attended.

Preventing Accidents from Stage Coaches.

188. To the person who shall invent and discover to the Society a method of preventing accidents arising from Stage Coaches;—*the Gold Medal, or Thirty Guineas.*

Ample certificates of its efficacy, and a description of the method with models of the machinery used, to be produced to the Society on or before the last Tuesday in February, 1822.

N. B. The Society wish to impress strongly on the public the necessity of turning their attention to the above premium, from the number of accidents that daily occur; and suggest whether they might not in some degree be prevented, by an alteration in the manner of placing the luggage.

Preventing Accidents from Horses Falling with Two-Wheeled Carriages.

189. To the person who shall invent and produce to the Society a method, superior to any hitherto known or in use, preventing accidents from the falling of Horses with Two-wheeled Carriages, especially on steep declivities;—*the Gold Medal, or Thirty Guineas.*

A model of the apparatus, and a full account of the means by which the effect has been produced, with proper certificates that the same has been used with success, to be delivered to the Society, on or before the second Tuesday in February, 1822.

Improving Turnpike and other Roads.

190. To the person who shall discover to the Society the most effectual and cheapest method, verified by actual experiments, of combining the materials ordinarily employed in making or repairing Roads, so as to form them of the hardest consistency by their cementing properties, or by an artificial mixture of earth, stones, &c. altered by heat, or any other mode, so as to form an even, hard, and durable carriage-road;—*the Gold Medal, or Thirty Guineas.*

It is required that an accurate account of the method used, and every expense attending it, together with satisfactory certificates of its being effectual, be delivered to the Society on or before the first Tuesday in March, 1822.

Raising the Bodies of Persons who have Sunk under Water.

191. To the person who shall invent and produce to the Society, a cheap and Portable Drag, or other machine, superior to those now in use, for the purpose of taking up, in the best and most expeditious manner, and with the least injury, the bodies of persons who have sunk under water;—*the Gold Medal, or Thirty Guineas.*

The drag or machine, to answer the purpose intended, to be produced to the Society on or before the first Tuesday in March, 1822.

Preventing prejudicial effects to the Persons employed in pointing Needles.

192. To the person who shall invent and produce to the Society a mode of obviating the prejudicial effects that attend the operation of Pointing Needles, by grinding them dry, during which the particles of grindstone-dust, and steel, being thrown into the air, and received with it into the lungs, occasion asthma, consumption, and other painful disorders;—*the Gold Medal, or Thirty Guineas.*

A model of the apparatus, and a full account of the means by which the effect has been produced, together with proper certificates of its practicability and adoption, to be delivered to the Society on or before the second Tuesday in March, 1822.

Preventing Explosions in Steam-engine and other covered Boilers.

193. To the person who shall invent and discover to the Society a method of rendering covered boilers used for steam-engines and other purposes, safer than any now in use, and less liable to accidents from explosion;—*the Gold Medal, and not less than Thirty Guineas.*

Ample certificates that the method has been found to answer its intended purpose, to be produced to the Society, on or before the last Tuesday in February, 1822.

An Original Screw.

194. To the person who shall invent and make known to the Society any mode of producing an original screw more perfect than any hitherto known;—*the Gold Medal, or Thirty Guineas.*

A model, or complete drawing and description of the method, with a screw not less than twelve inches in length, to be produced to the Society on or before the last Tuesday in February, 1822.

Working Drawings of a Steam-engine.

195. To the person who shall produce to the Society the best working drawings in plan, elevation, and section of a condensing steam-engine in its most improved state, with a full detail of its several parts, and an accurate description thereof;—*the Gold Vulcan Medal, or Thirty Guineas.*

The drawings and description to be produced to the Society on or before the first Tuesday in April, 1822, and if rewarded, to remain the property of the Society.

PREMIUMS OFFERED FOR THE ADVANTAGE OF THE COMMERCE OF THE UNITED EMPIRE.*Taking Whales by the Gun-harpoon.*

196. To the person who shall strike and take the greatest number of Whales, not fewer than three, with the Gun-harpoon;—*Ten Guineas.*

Certificates of the striking such Whales, and that they were actually taken in the year 1820, signed by the master, or by the mate when the claim is made by the master, to be produced to the Society on or before the last Tuesday in December, 1821.

Taking Porpoises.

197. To the people in any boat or vessel, who, in the year 1821, shall take the greatest number of Porpoises, not fewer than thirty, on the coast of Great Britain or Ireland, for the purpose of extracting oil from them;—*the Gold Medal, or Thirty Guineas.*

Certificates of the number, signed by the persons to whom they have been sold or delivered for the purpose of extracting the oil, to be produced to the Society on or before the last Tuesday in February, 1822.

Oil from Porpoises, or Sun Fish.

198. To the person who shall manufacture the greatest quantity of Oil from

Porpoises or Sun-fish taken on the coast of Great Britain or Ireland, in the year 1821, not less than twenty tons;—*the Gold Medal, or Thirty Guineas.*

Certificates of the oil having been made from porpoises or sun-fish actually caught on the coast of Great Britain or Ireland, and two gallons of the oil as a sample, to be produced to the Society on or before the last Tuesday in February, 1822.

Curing Herrings.

199. To the person who shall send to the Society the best sample of White Herrings (not less than a sixteen gallon barrel), with certificates that not less than fifty barrels, equal in all respects to the sample, have been cured in a British or Irish vessel or port, by the person by whom the sample has been sent to the Society;—*the Gold Medal, or Fifty Guineas.*

Samples to be produced to the Society, on or before the first Tuesday in January, 1822, with certificates that the conditions of the premium have been fulfilled; together with a full description of the process employed.

In the 37th and 38th volumes of the Transactions, will be found valuable communications from Mr. Denovan of Leith, on the cure of British herrings, to

which the Society particularly wish to direct the attention of such persons as intend to claim this premium.

Exporting British-cured Herrings.

200. To the person who shall import into the Hamburg or other continental market previous to February, 1822, the greatest quantity of white herrings cured in British or Irish vessels, not less than 500 barrels, in quality at least equal to the best Dutch herrings, and which in the Hamburg or other continental market shall produce prices at least equal to the best Dutch ;—*the Gold Medal, or Fifty Guineas.*

201. For the next greatest quantity, not less than 300 barrels ;—*the Gold Isis Medal, or Thirty Guineas.*

Proper certificates and samples of the herrings to be produced to the Society on or before the last Tuesday in February, 1822.

The same premiums to be continued one year longer on similar conditions.

Curing Mackarel.

202. To the person who shall, before January, 1822, cure the greatest

quantity of Mackarel, not less in number than ten thousand, in the best manner and to the satisfaction of the Society, the same being caught in the British or Irish seas, and cured in a British or Irish vessel or port ;—*the Gold Isis Medal, or Twenty-five Guineas.*

203. For the next greatest quantity, not less than five thousand ;—*the Silver Medal, or Fifteen Guineas.*

A sixteen gallon barrel of the mackarel to be produced to the Society on or before the first Tuesday in January, 1822, with certificates that the conditions of the premium have been fulfilled, and that the whole were cured in the same manner as the specimens, together with a full description of the process employed.

The same premiums to be extended one year farther, on similar conditions.

N. B. Specimens of cured mackarel, which promise to afford a most valuable article of trade and food, even superior to herrings, have been sent to the Society, and have induced them to turn the attention of the public thereto, by offering the above premiums.

PREMIUMS OFFERED FOR THE ADVANTAGE OF THE BRITISH COLONIES.

Nutmegs.

204. For the greatest quantity of Merchantable Nutmegs, not less than ten pounds weight, being the growth of his majesty's dominions in the West Indies, or any of the British settlements on the coast of Africa, or of the several islands adjacent thereto, and equal to those imported from the islands of the East Indies ;—*the Gold Medal, or Fifty Guineas.*

Satisfactory certificates, from the governor or commander in chief, of the place of growth, with an account of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner of culture, to be produced on or before the first Tuesday in January, 1823.

The same premium is offered for the year 1824.

Kali for Barilla.

205. To the person who shall have cultivated, in the Bahama islands, or any other part of his majesty's dominions in the West Indies, or any of the British settlements on the coast of Africa, or the several islands adjacent thereto, in the year 1821, the greatest quantity of land, not less than two acres, with a Kali equal to the Spanish Kali for the purpose of making Barilla ;—*the Gold Medal, or Thirty Guineas.*

206. For the next greatest quantity, not less than one acre ;—*the Silver Medal, or Fifteen Guineas.*

Certificates signed by the governor or commander in chief for the time being, of the quantity of land so cultivated, and of the state of the plants at the time of signing such certificates, to be delivered to the Society, with samples of the kali, on or before the second Tuesday in February, 1822.

The same premiums, on similar conditions, will be given for Barilla grown in 1822 and 1823.

Destroying the Insect commonly called the Borer.

207. To the person who shall communicate to the Society an effectual method of destroying the insect commonly called the Borer, which has of late years been so destructive to the sugar canes in the West India islands;—*the Gold Medal, or Fifty Guineas.*

The discovery to be ascertained by satisfactory certificates, under the hand and seal of the governor or commander in chief for the time being, and of some other respectable persons, inhabitants of the islands, or other place, in which the remedy has been successfully applied; such certificates to be delivered to the society on or before the first Tuesday in February, 1822.

Cultivation of Hemp in Upper Canada.

208. To the person who shall sow with Hemp the greatest quantity of land in the province of Upper Canada, not less than six arpents (each-four-fifths of a statute acre), in the year 1821, and shall at the proper season cause to be plucked the summer Hemp (or male hemp bearing no seed), and continue the winter hemp (or female hemp bearing seed) on the ground until the seed is ripe;—*the Gold Medal, or One Hundred Dollars.*

209. To the person who shall sow with Hemp the next greatest quantity of land in the same province of Upper Canada, not less than five arpents, in the year 1821, in the manner above-mentioned; *the Silver Medal, or Fifty Dollars.*

Certificates of the number of arpents, the method of culture, of the plucking

of the hemp, with a general account whether sown broad cast or in drills, the expense, soil, cultivation and produce, to be transmitted to the Society, certified under the hand and seal of the governor or lieutenant-governor, together with 28 lbs. of the hemp, and two quarts of the seed, on or before the last Tuesday in April, 1823.

Cultivation of Hemp in Lower Canada.

210—211. Premiums exactly similar in all respects to those held out for the province of Upper Canada, are also offered for the province of Lower Canada.

Cultivation of Hemp in Nova Scotia and New Brunswick.

212—213. Similar premiums in all respects are also offered to the provinces of Nova Scotia and New Brunswick.

Importation of Hemp from Canada, Nova Scotia, and New Brunswick.

214. To the person who shall import to this country the greatest quantity of Marketable Hemp, not less than one hundred tons, in the year 1821, the produce of Canada, or of one of the above-mentioned provinces;—*the Gold Medal.*

215. To the person who shall import the next quantity, not less than fifty tons;—*the Silver Medal.*

Certificates, satisfactory to the Society, to be produced by the master of the vessel on or before the first Tuesday in February, 1822, to testify that such hemp was grown and prepared in Canada, Nova Scotia, or New Brunswick.

Substitute for Hemp.

216. To the person who, in the year 1821, shall discover and produce to the Society a substitute for Hemp, equally cheap, durable, and applicable to all the purposes for which hemp is now used;—*the Gold Medal, or Fifty Guineas.*

A quantity of the substitute not less than one hundred weight, together with the proper certificates from the governor or commander in chief, if

raised in any of the British colonies, or from the Secretary of the Board of Trade, if raised in the East Indies, to prove that the same has been used with success, to be produced to the Society on or before the last Tuesday in February, 1822.

N. B. The premiums from No. 207, to 216, are all extended one year farther, on similar conditions.

Silk.

217. For the greatest quantity of silk proper for manufactures, not less than one hundred pounds weight, produced by any person in the Isle of France, Ceylon, or Malta, or islands near or adjacent thereto, in the possession of Great Britain, in the year 1820, from Silk-worms bred there;—*the Gold Medal, or Fifty Guineas.*

Specimens of the Silk, not less than one pound, with an account of the method in which the Silk-worms were managed; the kind and size of the mulberry-trees from whence they were furnished with food, and particulars respecting the culture of the mulberry trees for that purpose, to be produced to the Society on or before the first Tuesday in March, 1822.

218. For the next greatest quantity, not less than fifty pounds, on similar conditions;—*the Silver Medal, or Twenty Guineas.*

Satisfactory certificates from the governor or commander in chief of the district where the said Silk was produced, and of the several particulars above-mentioned, to be delivered to the Society along with the samples required.

N. B. The same premiums, on similar conditions, will be given for Silk produced in the year 1821.

Cocoa Nut Oil.

219. To the person who shall, in the year 1822, import the largest quantity of Cocoa-nut oil, not less than fifty tons, and of the best quality;—*the Gold Medal, or Thirty Guineas.*

Proper certificates, with the bills of lading, and samples of the oil, to be produced to the Society on or before the last Tuesday in February, 1822.

1821.

This premium is proposed, particularly with a view to encourage the use of Cocoa-nut oil, in the making of gas for the purpose of illumination, such gas having been found much superior to those commonly in use.

Wool from New South Wales.

220. To the person who, previous to February, 1823, shall import into Great Britain or Ireland, the greatest quantity, not less than two tons, of fine wool, the produce of New South Wales;—*the Gold Medal.*

Proper certificates, with the bills of lading, and samples of the wool, to be produced to the Society, on or before the last Tuesday in February, 1823.

221. For the next greatest quantity, not less than one ton, on similar conditions;—*the Silver Medal.*

Fine Wool from New South Wales.

222. To the person who shall produce to the Society the finest sample of wool, the produce of New South Wales, superior to the best Saxon or Spanish;—*the Gold Medal.*

Not less than 14 lbs. of the wool to be produced to the Society on or before the last Tuesday in February, 1823, together with certificates, that at least 5 cwt. equal to the sample has been imported by the claimant.

Extirpating the Stumps and Roots of Trees.

223. To the person who shall invent and discover to the Society the best method, verified by actual experience, of raising out of the earth and removing the stumps and roots of trees which have been left after felling the timber, so as to clear the land for the purposes of cultivation;—*the Gold Medal, or Fifty Guineas.*

Certificates that the method has succeeded with at least fifty trees of large girth, and a full description of the means employed, to be delivered to the Society on or before the last Tuesday in February, 1822.

**PREMIUMS OFFERED FOR THE ADVANTAGE OF THE
BRITISH SETTLEMENTS IN THE EAST INDIES.**

*India Paper for Copper Plate
Printing.*

224. To the person who shall communicate to the Society the best account of the process employed in India or China for the manufacture of paper used in England for Copper Plate Printing, and known by the name of India Paper, together with an account of the materials from which such paper is made;—*the Gold Medal, or Fifty Guineas.*

Specimens of the paper, not less than one ream, with samples of the materials in their raw or unmanufactured state, and satisfactory certificates signed by the Secretary of the Government or Board of Trade of the respective settlement, to be produced to the Society on or before the first Tuesday in March, 1823, or 1824.

Bhaugulpore Cotton.

225. To the person who shall import into the port of London, in the year 1820, the greatest quantity, not less than one ton, of the Bhaugulpore Cotton, from which Cloths are made in imitation of nankin, without dying;—*the Gold Medal.*

A quantity of the Cotton not less than five pounds weight in the pod, and five pounds carded, to be produced to the Society, with proper certificates, signed by the Secretary of the Board of Trade of Bengal or Bombay, or by the Governor of the Colony whence the article is exported, on or before the last Tuesday in February, 1822.

Annatto.

226. To the person who, in the year 1821, shall import into the port of London, from any part of the British settlements in the East Indies, the greatest quantity of annatto, not less than five-hundred weight;—*the Gold Medal.*

A quantity of the annatto, not less than ten pounds weight, to be produced to the Society, with proper certificates, signed by the Secretary of the Board of Trade of the respective settlement, that the annatto is the produce of such settlement, on or before the last Tuesday in February, 1822.

True Cochineal.

227. To the person, who in the year 1821, shall import into the port of London, from any part of the British settlements in the East Indies, the greatest quantity of true Cochineal, not less than two hundred weight;—*the Gold Medal.*

A quantity of the Cochineal, not less than three pounds weight, with proper certificates, signed by the Secretary of the Board of Trade of the respective settlement, that the Cochineal is the produce of such settlement, to be produced to the Society on or before the first Tuesday in February, 1822.

N. B. The premiums from No. 223 to 227 inclusive, are all extended two years farther on similar conditions.

BRITISH MARBLES.

THE SOCIETY considering that it would be beneficial to the Commerce of the United Kingdom to bring the British Marbles into general use, and that the most effectual method of ac-

complishing their object would be, *for the present*, to make them more generally known in the Capital, have come to the following Resolution:

Resolved, That specimens of British

Marbles be exposed in the Society's Rooms, in the Adelphi, for the inspection of the public under the following regulations:

1st, That all the specimens be exact to a given size, viz. eight inches high, six inches broad, one thick, and polished on one face.

2nd, That a book be kept, containing the number of each specimen, and describing the situation of the quarry, the name of the parish where situated, the distance of the quarry from a beaten road, and the distance of that road from water-carriage, with the name of the donor and proprietor. Any remarks on the qualities of the Marbles, or on the lime produced from them, will be grate-

fully received and preserved by the Society, as materials for future inquiries.

As the exertions of the Society can be generally beneficial only inasmuch as their views are seconded by the public, the Society request, that all proprietors of Marble Quarries will favour them with a specimen of the Marble, worked to the exact size above-mentioned, with the description of the quarry as above, that the same may be entered in the book to be preserved for the use of the public. By such arrangements, it is expected, that the interest of the proprietors of the quarries will be promoted, and the use of British Marble much extended. A variety are already exhibited in the Society's Rooms.

REWARDS BESTOWED BY THE SOCIETY DURING THEIR SESSION
 WHICH COMMENCED ON THE FIRST WEDNESDAY IN NOVEMBER,
 1820, AND CLOSED ON THE SECOND WEDNESDAY IN JUNE, 1821.

IN AGRICULTURE AND RURAL ECONOMY.

1. To C. Fyshe Palmer, Esq. M. P. of Oakingham, Berks, for sowing 216 bushels of Acorns on 240 acres, *the large Silver Medal.*
2. To C. Fyshe Palmer, Esq. M. P. of Oakingham, Berks, for planting 280 acres with 893,420 Forest Trees, *the large Gold Medal.*
3. To C. Fyshe Palmer, Esq. M. P. of Oakingham, Berks, for planting 30,700 Oaks for Timber, *the large Gold Medal.*
4. To Thomas Wilkinson, esq. Fitzroy-square, for sowing 240 bushels of Acorns on 260 acres, *the large Gold Medal.*
5. To Sir W. Templer Pole, Bart. Shute-house, near Axminster, for raising 896,000 Oaks from Acorns, *the small, or Ceres, Gold Medal.*
6. To Henry Potts, Esq. Chester, for planting 194 acres with 528,240 Forest Trees, *the large Silver Medul.*
7. To Edward Dawson, Esq. Aldcliffe-hall, near Lancaster, for embanking 166 acres of marsh land from the Sea, *the large Gold Medal.*

IN POLITE ARTS.

Honorary Class.

1.—ORIGINAL.

1. To Miss Emily Coppin, Norwich, for an original Oil Painting of Fruit, *the large Gold Medal.*
2. To Miss Barnard, Bury St. Edmund's, for an original Painting of Flowers in Water Colours, *the small, or Isis, Silver Medal.*
3. To Miss Harmer, Sloane-street, for a Chalk Drawing from a Bust, *the large Silver Medal.*
4. To Miss Elizabeth Elford, Bickham, near Plymouth, for an original Water Colour Drawing of Flowers, *the Silver Isis Medal.*

2.—COPIES.

5. To Mr. James Watts Peppercorne, South Cottage, Vauxhall, for an Historical Drawing in Pen and Ink, *the large Silver Medal.*

6. To Mr. R. Hayter Jarvis, Long Acre, for an Historical Drawing in Chalk, *the Silver Palette*.
7. To Mr. Edward Knight, Grand Hotel Chambers, Covent Garden, for a Landscape in Oil, *the Silver Palette*.
8. To Miss Emma Davis, Surrey-square, for a Portrait in Oil, *the small, or Isis, Silver Medal*.
9. To Miss Anne Beaumont, Newman-street, for a Portrait in Oil, *the large Silver Medal*.
10. To Miss Stephens, Dorset-square, a Landscape with Figures, in Oil, *the Silver Palette*.
11. To Miss Emma Maria Smith, Upper Conway-street, Fitzroy-square, for a Landscape in Pen and Ink, *the Silver Palette*.
12. To Miss Myddleton Biddulph, Russel Farm, near Watford, for a Portrait in Chalk, *the large Silver Medal*.
13. To Miss Hartman, York-street, Portman-square, for a Holy Family in Chalk, *the Silver Palette*.
14. To Miss Caroline Walter, Devonshire-place, Portland-place, for a Figure in Chalk, *the Silver Palette*.

Class for Artists and Others.

1.—ORIGINAL.

15. To Mr. I. Wood, High-street, Whitechapel, for an Historical Painting in Oil, Satan starting from the Touch of the Spear of Ithuriel, *the large Silver Medal*.
16. To Mr. Robert Oliver, South-street, Manchester-square, for a Landscape in Oil, *the small, or Isis, Gold Medal*.
17. To S. Mountjoy Smith, Great Marlborough-street, for a Drawing in Chalk from a Bust, *the Silver Palette*.
18. To Mr. T. S. Engleheart, Bayham-street, Camden Town, for a Chalk Drawing from a Plaster Cast, *the Silver Palette*.
19. To Mr. W. Watts, High-street, Hampstead, for an Historical Painting in Oil, Ubald and the Sirens, (from Tasso), *the large Gold Medal*.
20. To Mr. W. Fairland, Princes-street, Blackfriars, for a Chalk Drawing from a Bust, *the smaller, or Isis, Silver Medal*.
21. To Mr. S. Nicholson, Liverpool, for a Landscape Composition in Pencil, *the large Silver Medal*.
22. To Miss Rose Emma Drummond, Rathbone-place, for an original Portrait in Crayons, *the small, or Isis, Gold Medal*.
23. To Miss Anne Eggbrecht, Frith-street, Soho, for a Chalk Drawing from a Bust, *the Silver Palette*.
24. To Miss Georgina Huntly, Newman-street, for a Group of Portraits in Water Colours, *the Silver Palette*.
25. To Mr. H. Courtney Slous, Bayham-street, Camden Town, for an Oil Painting of a Boar Hunt, *the small, or Isis, Gold Medal*.
26. To Mr. G. Presbury, John-street, Fitzroy-square, for a Chalk Drawing of the Ilissus, in the Elgin Collection, *the small, or Isis, Silver Medal*.
27. To Mr. Penry Williams, Newman-street, for a Chalk Drawing of the Ilissus, in the Elgin Collection, *the large Silver Medal*.
28. To Mr. J. Eggbrecht, Frith-street, Soho, for a Chalk Drawing from a Bust, *the small, or Isis, Silver Medal*,

29. To Miss Cotton, Chicheley, near Newport Pagnel, for an Oil Painting of Flowers, *the small, or Isis, Silver Medal.*

2.—COPIES.

30. To Mr. F. Woodington, Queen Anne-street, for a drawing of figures in Indian Ink, *the Silver Palette.*

31. To Miss Caroline Vendramini, Brompton-row, for a Drawing in Chalk of an Historical Subject, *the large Silver Medal.*

32. To Miss Is. Murray, Paragon, Kent-road, for a Head in Chalk, *the Silver Palette.*

33. To Mr. I. Scarlet Davis, Southampton-row, for a Head in Pen and Ink, *the Silver Palette.*

34. To Miss Turner, Warren-street, Fitzroy-square, for a Portrait in Indian Ink, *the Silver Palette.*

35. To Miss Jane Drummond, Church-street, Soho, for a Portrait in fixed Crayons, *the large Silver Medal.*

36. To Mr. R. F. Cahusac, Cursitor-street, Chancery-lane, for a Pen and Ink Drawing of Two Dogs, *the Silver Palette.*

37. To Miss Welsh, David-street, Baker-street, for a Painting of Flowers on Velvet, *the large Silver Medal.*

38. To Miss Caroline Hanning Evatt, East Hill, Wandsworth, for a Copy in Oil of West's Tobit, *the small, or Isis, Gold Medal.*

39. To Mr. F. Y. Hurlstone, Great Queen-street, for an Historical Painting in Oil, *the large Silver Medal.*

40. To Miss Charlotte Wroughton, Bedford-street, Bedford-square, for a Portrait in Miniature, *the large Silver Medal.*

41. To Miss Biffin, Strand, for an Historical Miniature, *the large Silver Medal.*

Original Architectural Designs.

The subject, a Building suited to the use of the Society of Arts, &c.

42. To Mr. C. Ward, Store-street, Bedford-square, *the Silver Medallion.*

43. To Mr. Edward Taylor, Salisbury-street, Strand, *the large Silver Medal.*

44. To Mr. George Jackson, Lower-Brook-street, *the small, or Isis, Silver Medal.*

Models.

1.—ORIGINAL.

45. To Mr. C. S. Smith, Norton-street, Fitzroy-square, for a Group of Two Figures, *the small, or Isis, Gold Medal.*

46. To Mr. T. Smith, Norton-street, Fitzroy-square, for a Single Figure, *the large Silver Medal.*

47. To Mr. T. Carline, Shrewsbury, for a Single Figure, *the small, or Isis, Silver Medal.*

48. To Mr. C. F. Bielefield, St. Martin's Lane, for a Bust, a Portrait, *the small, or Isis, Silver Medal.*

49. To Miss Anne Wyon, Vauxhall Walk, for a Composition of Flowers in Wax, *the small, or Isis, Silver Medal.*

2.—COPIES.

50. To Mr. J. Preece, Upper Mary-le-bone-street, for a Copy in Plaster of the Laocoon, *the Silver Palette.*

51. To Mr. C. Delatre Theakston, Winchester-street, Pentonville, for a Copy in Plaster of the Laocoon, *the small, or Isis, Silver Medal.*

52. To Mr. Frederic Mace, Queen's-row, Pimlico, for a Bacchanalian Figure, *the large Silver Medal.*

Medal Die Engravings.

53. To Mr. Ben. Wyon, Vauxhall Walk, for a Group of Two Figures, *the small, or Isis, Gold Medal.*

54. To Mr. A. S. Firmin, Strand, for a Head, *the small, or Isis, Silver Medal.*

Etchings and Engravings.

55. To Mr. W. De la Motte, Royal Military College, Bagshot, for an Etching of a Landscape, *the small, or Isis, Silver Medal.*

56. To Mr. James Bromley, Trevor-square, Brompton, for an Etching of a Landscape, *the Silver Palette.*

57. To W. Bromley, Esq. A. R. A., Trevor-square, Brompton, for a finished Historical Engraving, *the large Gold Medal.*

58. To Mr. George Hayter, Wimpole-street, for an original Etching from a Picture by Titian, *the large Silver Medal.*

59. To Mr. J. Bromley, South-street, Chelsea, for an Etching of an Historical Subject, *the large Silver Medal.*

60. To Mr. T. F. Ranson, Judd-place, West, for a finished Engraving of a Portrait, *the small, or Isis, Gold Medal.*

61. To Mr. George Steart, for Improved Tablets for Drawing on, *the small, or Isis, Silver Medal.*

IN MANUFACTURES.

1. To Mr. W. Salisbury, Brompton, for Matting made of the *Typha Latifolia* (or Bullrush), *the small, or Ceres, Silver Medal.*

IN CHEMISTRY AND MINERALOGY.

1. To Mr. W. Bishop & Co., Pistyll, near Holywell, for the Discovery of Mill-stone of a superior quality, in Halkin Mountain, Flintshire, *the small, or Isis, Gold Medal.*

IN MECHANICS.

1. To Mr. N. H. Nicholas, Lieut. R. N. Temple, for a Semaphore, *the large Silver Medal.*
2. To Mr. P. Barlow, Royal Military Academy, Woolwich, for his Instrument to correct the local Variation of a Ship's Compass, *the large Gold Medal.*
3. To Mr. B. Rider, Redcross-court, Borough, for a Machine for Cutting Tips for Hats, *Ten Guineas.*
4. To Mr. C. Brandt, Jermyn-street, for a Spring Crutch for a Pendulum, *the small, or Vulcan, Silver Medal.*
5. To Mr. E. Baker, Whitechapel-road, for a Bullet Mould, *the small, or Vulcan, Silver Medal.*
6. To Jos. Goodwin, Esq. Carlton Palace, for a Spring Cross for Horses, *the small, or Vulcan, Silver Medal.*
7. To Mr. G. Witty, Frances-street, Holloway, for a Fire Escape, *Ten Guineas.*
8. To Henry Earle, Esq. George-street, Hanover-square, for a Bed for Patients under Surgical Treatment, *the large Gold Medal.*
9. To Mr. James Story, Theobald's-road, for a Portable Oven, *the small, or Vulcan, Silver Medal.*
10. To Mr. Jacob Perkins, Fleet-street, for a Method of Ventilating the Holds of Ships, and Warming and Ventilating Apartments, *the large Silver Medal.*
11. To Mr. Jacob Perkins, Fleet-street, for Instruments to ascertain the Trim of a Ship, *the small, or Vulcan, Gold Medal.*
12. To Ben. Rotch, Esq. Furnival's Inn, for an Arcograph, *the small, or Vulcan, Silver Medal.*
13. To Mr. S. Lake, Alfred-place, Bedford-square, for a Double Door Hinge, *the small, or Vulcan, Silver Medal.*
14. To Mr. James Allan, Blewitt's-buildings, for his Method of dividing Circular Arcs, *the large Silver Medal.*

The Thanks of the Society were voted to J. C. Curwen, Esq. M. P. for a Communication on Draining; and to George Reveley, Esq. Queen's-square, Bloomsbury, for a Communication on the Use of Soap instead of Oil in setting Cutting Instruments on a Hone; which were ordered for publication in the next volume of Transactions of the Society.

* * * Since the last DISTRIBUTION, One Hundred and Thirty-nine New Members have been Elected.